	·									SHEET 1 OF 5				
FORM PTO				•						TY. DOCKET NO	•	SERIAL N	IO.	
Comme Office	rce(Rev.	4/92	?)∍Pa	tent	and '	Trade	emar		35478CX21		Not yet assigned		
J55				ON D			-			PLICANT /A, et al				
(1	Use	seve	eral s	heet	s if n	eces	sary)		FILING DATE GROUP March 29, 2004 2818					
						U	.S. P	ATE	NT DOC	UMENTS				
EXAMINER INITIAL		DOC:	IMENT N										FILI	
MT		4	9	6	4	0	7	9	10/90	NAME. Devin	365		IF API	
		5	3	6	5	4	8	6	11/94	Schreck	365			
		5	4	1	2	6	0	1	5/95	Sawada et al	365			
		5	8	3	1	9	0	0	11/98	Miyamoto	365	120120		
Wi		5	7	4	5	4	0	9	4/98	Wong et al	365			
		5	5	5	5	2	0	4	9/96	Endoh et al	365			
		5	1	5	1	3	8	7	9/92	Brady et al	437		4/30/	
		5	0	8	4	4	1	7	1/92	Joshi et al	437		3/13/	
		5	0	5	9	5	5	4	10/91	Spinner et al	437		6/23/:	
		5	1	7	2	3	3	8	12/92	Mehrotra et al	365	185.03		
		5	1	3	8	5	7	6	8/92	Madurawe	365	185.3		
M		5	4	8	7	0	3	6	1/96	Akaogi et al	365	185.23		
FOREIG	N F	ATE	NT [OOC	JME	NTS								
		DOCU	MENT N	UMBER					DATE	COUNTRY	CLAS	S SUBCLASS	ABSTRA	
ME	<u> </u>	<u> </u>	r	1	Γ	<u> </u>		<u> </u>			ļ ——		YES	
	5	9	1	2	1	6	9	6	7/84	Japan	-		XX	
HI	<u> </u>	4	2	3	8	1	9	6	8/92	Japan				
ME	<u> </u>	4	5	7	2	9	4	<u>!</u>	2/92	Japan				
OTHER D	OCL									nt Pages, Etc.)				
MI		App	licatio	Techn ons, T. cuits C	Jung	apers, , et al.	, ATP 2 , ISSC	2.1: A : :C96/S	3.3V 128M ession 2/F	b Multi-level NAND Fl lash Memory/Paper 1	ash M P 2.1,	emory for Mas 1996 EEE Inte	ss Stori ernatior	
MT		Bett	y Prin	ce, "S	emico	nduc	tor Me	morie	s", 1983, V	Visely, 2 nd Edition, pp	. 620-	621.		
EXAMINE	EXAMINER M, TRAN DATE CONSIDERED 9/17/04													

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. I copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

SHEET_2 OF 5

FORM PTO 1449 U.S. Department of Commerce (Rev. 4/92) Patent and Trademark Office

ATTY. DOCKET NO.

SERIAL NO.

501.35478CX21

Not yet assigned

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT MIWA, et al

FILING DATE March 29, 2004

GROUP 2818

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC	JMENT N	UMBER				· · · · · · · · · · · · · · · · · · ·	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
UT	5	6	7	7	8	6	8	10/97	Takahashi, et al	365	185	
	5	7	6	8	1	9	3	6/98	Lee, et al	365	185.25	
	5	7	5	7	6	9	9	5/98	Takeshima, et	365	185.24	
ale	5	7	9	6	6	5	2	8/98	Takeshima, et	365	185.03	
	5	7	5	4	4	6	9	5/98	Hung, et al	365	185.03	
	5	7	4	8	5	3	3	5/98	Duniap, et al	365	185.19	
	5	7	5	4	4	7	5	5/98	Bill, et al	365	185.25	
	5	6	8	7	1	1	4	11/97	Khan	365	185.03	
n \	5	7	6	8	1	8	8	6/98	Park, et al	365	185.03	
1	5	4	4	0	5	0	5	8/95	Fazio, et al	365	45 ·	
	5	4	5	0	3	6	3	9/95	Christopherson	365	205	
	5	1	6	3	0	2	1	11/92	Mehrotra, et al	365	185	
	5	7	6	8_	1	9	1	6/98	Choi, et al	365	185.22	
	5	5	6	6	1	2	5	10/96	Fazio	365	45	
	5	2	0	0	9	2	0	4/93	Norman, et al	365	185	
	5	6	7	5	5	3	7	10/97	Bill, et al	365	185.22	
WF	4	8	6	0	2	5	8	8/89	Fruhauf, et al	365	194	

EXAMINER	d	TRAN	DATE CONSIDERED	9/17/04

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

SHEET 3 OF 5

FORM PTO-1449 U.S. Department of Commerce(Rev. 4/92) Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

SERIAL NO.

501.35478CX21

Not yet assigned

APPLICANT MIWA, et al

FILING DATE March 29, 2004 GROUP 2818

U.S. PAT	ENT DOC	UMENTS
----------	---------	--------

EXAMINER INITIAL	DOC	UMENT N	UMBER				,	DATE	NAME	CLASS	SUBCLASS	FILING DATE
MF.	5	9	1	5	1	0	5	6/99	Farmwald et al	365	233	
	6	0	3	8	1	6	5	3/00	Miwa	365	185.03	
	4	4	3	5	7	8	6	3/84	Tickle	365	185	
ME	5	6	9	4	3	5	7	12/97	Mori	365	185.03	

FOREIGN PATENT DOCUMENTS

		DOCL	MENT N	UMBER					DATE	COUNTRY	CLASS	SUBCLAS	ABSTRACT .	
		 						.				3	YES	NO
MI	<u> </u>	6	2	6	4	9	3_		2/87	Japan			xx	
		6	2	3	4	3	9	8	2/87	Japan			xx	
	6	2	2	5	7	6	9	9	11/87	Japan	_		xx	
	6	2	2	9	8	9	9	9	12/87	Japan			xx	
	6	3	2	7	6	7	9	1_	11/88	Japan			хх	
	<u> </u>	2	4	0	1	9	8		2/90	Japan			xx	
MY		2	2	. 6	0	2	9	8	10/90	Japan			хх	
		3	2	3	7	6	9.	2	10/91	Japan	_		xx	
	<u> </u>	ļ	4	5	7	2	9	4	2/92	Japan	-		xx	
		4	1	8	4	7	9_	4	7/92	Japan			xx	
		4	2	3	8	1	9	6	8/92	Japan	<u> </u>		xx	
	0	6_	1	3_	1	8	8	1	5/94	Japan			xx	
	0	6	1	9	5	9	8	7	7/94	Japan			xx	
	0	6	·2	6	7	2	8	5	9/94	Japan	-		xx	
. , ,		<u> </u>												
EXAMINER M. TRAN DATE C					E CC	NSIDER	· 9/17/0 y	<u></u>						

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. Department of ATTY. DOCKET NO. SERIAL NO. Commerce(Rev. 4/92) Patent and Trademark 501.35478CX21 Office Not yet assigned APPLICANT INFORMATION DISCLOSURE MIWA, et al STATEMENT BY APPLICANT FILING DATE **GROUP** (Use several sheets if necessary) March 29, 2004 2818 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL FILING DATE DOCUMENT NUMBER DATE NAME CLASS SUBCLASS APPROPRIATE MT 5 3 7 3 9 0 7/94 Takasugi 365 230 5 4 7 3 5 7 0 12/95 Sato et al 365 221 6 0 1 8 8 0 1/00 Tani et al 382 312 6 3 6 6 4 9 5 4/02 Miwa et al 365 185.03 6 4 5 9 6 1 4 10/02 Miwa et al 365 185.03 6 0 4 0 3 1 3/00 ladanza et al 365 230.03 **FOREIGN PATENT DOCUMENTS** DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS ABSTRACT YES NO ME 1 2 11/89 XX 3 2 9 4 Japan 7 0 0 5 7 4 8 4 3/95 Japan XX 0 2 1 5 4 9 Japan X 6 0 3 0 9 8 9 0 11/94 Japan XX 0 1 2 3 4 2 9/79 8 Japan 1 7 1 3 4 9 3 5/89 X Japan 5 2 1 9 XX 0 9 8/93 Japan 6 2 5 1 5 9 9/94 X Japan 7 9 3 9 7 9 4/95 XX Japan 2 4 1 0 0 9 8 2/90 XX Japan M TRAN **EXAMINER** DATE CONSIDERED EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not

SHEET 4 OF 5

6

(Form PTO-1449 [6-4]

considered. Include copy of this form with next communication to applicant.

S01.3578CX21		FORM PTO-1449 U.S. Department of commerce (Rev. 4/92) Patent and Trademark									. DOCKET NO.		SERIAL NO.			
H. MIWA, et al FRUND DATE STATEMENT BY APPLICANT (Use several sheets if necessary) FRUND DATE SUBCLASS SUBC				,						501.	501.35478CX21 Not yet assigned					
FILING DATE GROUP GROUP																
DATE NAME CASS SUBCLASS FAUNC DATE																
DOCUMENT NUMBER							U	.S. P	ATE	NT DOC	UMENTS					
No.			DOCUMENT NUMBER								NAME	CLASS	SUBCLASS	FILING IF APPRO	DATE PRIATE	
A	MC		5	2	9	7	0	2	9	3/94	Nakai et al					
5 4 2 2 8 5 8 6/95 Mizukami et al 365 233	ſ		4	1.	9	2	8						· · · · · · · · · · · · · · · · · · ·			
5 5 4 4 0 9 9 8/96 Hara 365 185.19			5		2								·			
S 6 7 7 8 6 9 10/97 Fazio, et al 365 185.03			5	5	3_	9	6	8	8	7/96	Yiu, et al	365	185.14			
S 5 1 5 1 5 3 3/97 Yiu, et al 365 185.19			5	5	4	4	0	9	9	8/96	Нага	365	185.19			
FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER			5	6	7	7	8	6	9	10/97	Fazio, et al	365	185.03			
FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER	oh F		5	6	1	5	1	5	3	3/97	Yiu, et al	365	185.19		_	
FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER	-															
DATE COUNTRY CLASS SUBCLASS ABSTRACT YES NO ME 0 6 2 8 2 9 9 2 10/94 Japan XX 0 7 1 6 1 8 5 2 6/95 Japan XX 0 6 0 7 6 5 8 6 3/94 Japan OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) EXAMINER M. DATE CONSIDERED 9 7 6 EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.																
DATE COUNTRY CLASS SUBCLASS ABSTRACT YES NO ME 0 6 2 8 2 9 9 2 10/94 Japan XX 0 7 1 6 1 8 5 2 6/95 Japan XX 0 6 0 7 6 5 8 6 3/94 Japan OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) EXAMINER M. DATE CONSIDERED 9 7 6 EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.															•	
DATE COUNTRY CLASS SUBCLASS ABSTRACT YES NO ME 0 6 2 8 2 9 9 2 10/94 Japan XX 0 7 1 6 1 8 5 2 6/95 Japan XX 0 6 0 7 6 5 8 6 3/94 Japan OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) EXAMINER																
ME 0 6 2 8 2 9 9 2 10/94 Japan XX 0 7 1 6 1 8 5 2 6/95 Japan XX 0 6 0 7 6 5 8 6 3/94 Japan XX OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) EXAMINER M. PAN DATE CONSIDERED 9174 EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	FOREIC	3N F	PATE	NT I	DOC	UME	NTS							•		
O 6 2 8 2 9 9 2 10/94 Japan XX O 7 1 6 1 8 5 2 6/95 Japan XX O 6 0 7 6 5 8 6 3/94 Japan XX OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) EXAMINER M. DATE CONSIDERED 917 M EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			DOC	MENT N	UMBER					DATE	DATE COUNTRY	CLASS	SUBCLASS	ABSTRAC	τ	
O 7 1 6 1 8 5 2 6/95 Japan XX O 6 0 7 6 5 8 6 3/94 Japan XX OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) EXAMINER M. PAN DATE CONSIDERED 9174 EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		_	<u> </u>	т—		T	1				1	<u> </u>		YES	NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	-Mg	0	6	2	8	2	9	9	2	10/94	Japan			xx	ļ	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) EXAMINER DATE CONSIDERED 9174 EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		0	7	1_	6	1	8_	5	2	6/95	Japan	-		xx		
EXAMINER M. The DATE CONSIDERED 917 M EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	MS	0	6	0	7	6	5	8	6	3/94	Japan			xx	ļ	
EXAMINER M. The DATE CONSIDERED 917 M EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					ļ ·		ļ	ļ	ļ					-		
EXAMINER M. The DATE CONSIDERED 917 M EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							<u> </u>								ļ. <u>-</u>	
EXAMINER M. The DATE CONSIDERED 917 M EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								<u></u>	<u></u>				<u> </u>			
EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	OTHER	DO	CUN	IENT	S (Ir	nclud	ling	Auth	or, T	itle, Dat	e, Pertinent Paç	ges, E	tc.)			
EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.																
EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							.,									
EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.																
considered. Include copy of this form with next communication to applicant.	EXAMINE	ER (M	t	TR	AN		DA	TE CC	NSIDER	= 9/17/a	1				
	EXAMINE	ER:	nitial	if cit	ation	is co	nside	red, c	iraw li	ne throug	h citation if not in	confor	mance and	not		
(Form PTO-1440 (6-41)	consider	ea. I	inclu	De CO	py 01	นกเร f	orm v	אונה ח	ext co		ition to applicant. (Form PTO-1449 [6	4 1)				

7